

PCT09

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/937,009A

DATE: 08/06/2002

TIME: 16:45:02

Input Set : A:\00200170.app

Output Set: N:\CRF3\08062002\I937009A.raw

```
3 <110> APPLICANT: Alessi, Dario
        Balendran, Anudharan
        Deak, Maria
 5
         Currie, Richard
 6
 7
         Downes, Peter
 8
        Casamayor, Antonio
10 <120> TITLE OF INVENTION: Enzyme
12 <130> FILE REFERENCE: 002.00170
14 <140> CURRENT APPLICATION NUMBER: US 09/937,009A
15 <141> CURRENT FILING DATE: 2000-03-17
                                                              ENTERED
17 <150> PRIOR APPLICATION NUMBER: PCT/GB00/01004
18 <151> PRIOR FILING DATE: 2000-03-17
20 <150> PRIOR APPLICATION NUMBER: GB 9906245.7
21 <151> PRIOR FILING DATE: 1999-03-19
23 <160> NUMBER OF SEQ ID NOS: 34
25 <170> SOFTWARE: PatentIn Ver. 2.1
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 24
29 <212> TYPE: PRT
30 <213> ORGANISM: Homo sapiens
32 <220> FEATURE:
33 <223> OTHER INFORMATION: region B of PRK2
35 <400> SEQUENCE: 1
36 Arg Glu Pro Arg Ile Leu Ser Glu Glu Glu Glu Met Phe Arg Asp
                                        10
                                                             15
37
   1
39 Phe Asp Tyr Ile Ala Asp Trp Cys
40
43 <210> SEQ ID NO: 2
44 <211> LENGTH: 24
45 <212> TYPE: PRT
46 <213> ORGANISM: Artificial Sequence
48 <220> FEATURE:
49 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic
50
         peptide sequence that interacts with human PRK2
51
        region B
53 <400> SEQUENCE: 2
54 Arg Glu Pro Arg Ile Leu Ser Glu Glu Glu Gln Glu Met Ala Arg Asp
                     5
                                        10
57 Phe Asp Tyr Ile Ala Asp Trp Cys
61 <210> SEQ ID NO: 3
```

62 <211> LENGTH: 24 63 <212> TYPE: PRT

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/09/937,009A**DATE: 08/06/2002
TIME: 16:45:02

Input Set : A:\00200170.app

Output Set: N:\CRF3\08062002\I937009A.raw

```
64 <213> ORGANISM: Artificial Sequence
66 <220> FEATURE:
67 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic
         peptide sequence that interacts with human PRK2
69
         region B
71 <400> SEQUENCE: 3
72 Arg Glu Pro Arg Ile Leu Ser Glu Glu Glu Glu Met Phe Gly Asp
7.3
   1
75 Phe Asp Tyr Ile Ala Asp Trp Cys
                20
79 <210> SEQ ID NO. 4
80 <211> LENGTH: 53
81 <212> TYPE: PRT
82 <213> ORGANISM: Homo sapiens
84 <220> FEATURE
85 <223> OTHER INFORMATION: region A of PRK2
87 <400> SEQUENCE: 4
88 Glu Asp Val Lys Lys His Pro Phe Phe Arg Leu Ile Asp Trp Ser Ala
89 1
                     5
                                        10
91 Leu Met Asp Lys Lys Val Lys Pro Pro Phe Ile Pro Thr Ile Arg Gly
                20
                                    25
94 Arg Glu Asp Val Ser Asn Phe Asp Asp Glu Phe Thr Ser Glu Ala Pro
                                40
            35
95
97 Ile Leu Thr Pro Pro
98
        50
101 <210> SEO ID NO: 5
102 <211> LENGTH: 23
103 <212> TYPE: PRT
104 <213> ORGANISM: Homo sapiens
106 <220> FEATURE:
107 <223> OTHER INFORMATION: region of PKC zeta
109 <400> SEQUENCE: 5
110 Asp Glu Asp Ala Ile Lys Arg Ile Asp Gln Ser Glu Phe Glu Gly Phe
                                         10
111 1
113 Glu Tyr Ile Asn Pro Leu Leu
114
                 20
117 <210> SEQ ID NO:
118 <211> LENGTH: 6
119 <212> TYPE: PRT
120 <213> ORGANISM: Homo sapiens
122 <220> FEATURE:
123 <223> OTHER INFORMATION: portion of region B of PRK2
125 <400> SEQUENCE: 6
126 Phe Arg Asp Phe Asp Tyr
127 1
                      5
130 <210> SEQ ID NO: 7
131 <211> LENGTH: 23
132 <212> TYPE: PRT
133 <213> ORGANISM: Homo sapiens
```

RAW SEQUENCE LISTING DATE: 08/06/2002
PATENT APPLICATION: US/09/937,009A TIME: 16:45:02

Input Set : A:\00200170.app

Output Set: N:\CRF3\08062002\1937009A.raw

```
135 <220> FEATURE:
136 <223> OTHER INFORMATION: region of PKC zeta
138 <400> SEQUENCE: 7
139 Asp Glu Asp Ala Ile Lys Arg Ile Asp Gln Ser Glu Phe Glu Gly Phe
                      5
140 1
142 Glu Tyr Ile Asn Pro Leu Leu
143
                 20
146 <210> SEQ ID NO: 8
147 <211> LENGTH: 11
148 <212> TYPE: PRT
149 <213> ORGANISM: Homo sapiens
151 <220> FEATURE:
152 <223> OTHER INFORMATION: region of PKB alpha
154 <400> SEQUENCE: 8
155 Pro His Phe Pro Gln Phe Ser Tyr Ser Ala Ser
156
     1.
159 <210> SEQ ID NO: 9
160 <211> LENGTH: 9
161 <212> TYPE: PRT
162 <213> ORGANISM: Homo sapiens
164 <220> FEATURE:
165 <223> OTHER INFORMATION: region of PRK1
167 <400> SEQUENCE: 9
168 Thr Phe Cys Gly Thr Pro Glu Phe Leu
    1
172 <210> SEQ ID NO: 10
173 <211> LENGTH: 6
174 <212> TYPE: PRT
175 <213> ORGANISM: Homo sapiens
177 <220> FEATURE:
178 <223> OTHER INFORMATION: region of PKC zeta
180 <400> SEQUENCE: 10
181 Phe Glu Gly Phe Glu Tyr
182
     1
185 <210> SEQ ID NO: 11
186 <211> LENGTH: 13
187 <212> TYPE: PRT
188 <213> ORGANISM: Homo sapiens
190 <220> FEATURE:
191 <223> OTHER INFORMATION: region of PDK1
193 <400> SEQUENCE: 11
194 Arg Gln Arg Tyr Gln Ser His Pro Asp Ala Ala Val Gln
195 1
                      5
                                         10
198 <210> SEO ID NO: 12
199 <211> LENGTH: 28
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
```

RAW SEQUENCE LISTINGPATERT APPLICATION: **US/09/937,009A**TIME: 16:45:02

Input Set : A:\00200170.app

Output Set: N:\CRF3\08062002\1937009A.raw

```
206 <400> SEQUENCE: 12
                                                                        28
207 cgggatecga ggatgtaaaa aagcacce
210 <210> SEO ID NO: 13
211 <211> LENGTH: 7
212 <212> TYPE: PRT
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Description of Artificial Sequence: human PKB alpha
217
         substrate peptide
219 <400> SEQUENCE: 13
220 Arg Pro Arg Thr Ala Ala Phe
221 1
224 <210> SEQ ID NO: 14
225 <211> LENGTH: 77
226 <212> TYPE: PRT
227 <213> ORGANISM: Homo sapiens
229 <220> FEATURE:
230 <223> OTHER INFORMATION: region of PRK2
232 <400> SEQUENCE: 14
233 Glu Asp Val Lys Lys His Pro Phe Phe Arg Leu Ile Asp Trp Ser Ala
234 1
                                         10
236 Leu Met Asp Lys Lys Val Lys Pro Pro Phe Ile Pro Thr Ile Arg Gly
                 20
                                      25
                                                          30
239 Arg Glu Asp Val Ser Asn Phe Asp Asp Glu Phe Thr Ser Glu Ala Pro
240
            35
242 Ile Leu Thr Pro Pro Arg Glu Pro Arg Ile Leu Ser Glu Glu Glu Gln
243
        50
                             55
245 Glu Met Phe Arg Asp Phe Asp Tyr Ile Ala Asp Trp Cys
246 65
                         70
249 <210> SEQ ID NO: 15
250 <211> LENGTH: 77
251 <212> TYPE: PRT
252 <213> ORGANISM: Homo sapiens
254 <220> FEATURE:
255 <223> OTHER INFORMATION: region of PRK1
257 <400> SEQUENCE: 15
258 Glu Asp Val Lys Lys Gln Pro Phe Phe Arg Thr Leu Gly Trp Glu Ala
259
261 Leu Leu Ala Arq Arq Leu Pro Pro Pro Phe Val Pro Thr Leu Ser Gly
262
                 20
                                     25
264 Arg Thr Asp Val Ser Asn Phe Asp Glu Glu Phe Thr Gly Glu Ala Pro
            35
                                 40
267 Thr Leu Ser Pro Pro Arg Asp Ala Arg Pro Leu Thr Ala Ala Glu Gln
        50
                             55
270 Ala Ala Phe Leu Asp Phe Asp Phe Val Ala Gly Gly Cys
271 65
                         70
274 <210> SEQ ID NO: 16
275 <211> LENGTH: 80
276 <212> TYPE: PRT
```

 RAW SEQUENCE LISTING
 DATE: 08/06/2002

 PATENT APPLICATION:
 US/09/937,009A
 TIME: 16:45:02

Input Set : A:\00200170.app

Output Set: N:\CRF3\08062002\1937009A.raw

```
277 <213> ORGANISM: Homo sapiens
279 <220> FEATURE:
280 <223> OTHER INFORMATION: region of PKB alpha
282 <400> SEQUENCE: 16
283 Lys Glu Ile Met Gln His Arg Phe Phe Ala Gly Ile Val Trp Gln His
                     5
                                         1.0
286 Val Tyr Glu Lys Lys Leu Ser Pro Pro Phe Lys Pro Gln Val Thr Ser
                                     25
                 20
289 Glu Thr Asp Thr Arg Tyr Phe Asp Glu Glu Phe Thr Ala Gln Met Ile
290
             35
                                 40
292 Thr Ile Thr Pro Pro Asp Gln Asp Asp Ser Met Glu Cys Val Asp Ser
293
        5.0
                             55
295 Glu Arg Arg Pro His Phe Pro Gln Phe Ser Tyr Ser Ala Ser Thr Ala
                         70
                                              75
302 <210> SEQ ID NO: 17
303 <211> LENGTH: 75
304 <212> TYPE: PRT
305 <213> ORGANISM: Homo sapiens
307 <220> FEATURE:
308 <223> OTHER INFORMATION: region of P70S6k
310 <400> SEQUENCE: 17
311 Gly Glu Val Gln Ala His Pro Phe Phe Arg His Ile Asn Trp Glu Glu
                     5
                                         1.0
314 Leu Leu Ala Arg Lys Val Glu Pro Pro Phe Lys Pro Leu Leu Gln Ser
                20
                                     25
317 Glu Glu Asp Val Ser Gln Phe Asp Ser Lys Phe Thr Arg Gln Thr Pro
                                 40
            35
320 Val Asp Ser Pro Asp Asp Ser Thr Leu Ser Glu Ser Ala Asn Gln Val
        50
                             55
323 Phe Leu Gly Phe Thr Tyr Val Ala Pro Ser Val
324 65
                         70
327 <210> SEQ ID NO: 18
328 <211> LENGTH: 82
329 <212> TYPE: PRT
330 <213> ORGANISM: Homo sapiens
332 <220> FEATURE.
333 <223> OTHER INFORMATION: region of SGK
335 <400> SEQUENCE: 18
336 Met Glu Ile Lys Ser His Val Phe Phe Ser Leu Ile Asn Trp Asp Asp
337
339 Leu Ile Asn Lys Lys Ile Thr Pro Pro Phe Asn Pro Asn Val Ser Gly
                20
                                     25
342 Pro Asn Glu Leu Arg His Phe Asp Pro Glu Phe Thr Glu Glu Pro Val
            35
                                 40
345 Pro Asn Ser Ile Gly Lys Ser Pro Asp Ser Val Leu Val Thr Ala Ser
        50
                             55
348 Val Lys Glu Ala Ala Glu Ala Phe Leu Gly Phe Ser Tyr Ala Pro Pro
                         70
                                             75
349 65
351 Thr Asp
```

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/937,009A

DATE: 08/06/2002 TIME: 16:45:03

Input Set : A:\00200170.app

Output Set: N:\CRF3\08062002\I937009A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:22; Xaa Pos. 2,3 Seq#:23; Xaa Pos. 6

Seq#:24; Xaa Pos. 2,3,5,6

Seg#:25; Xaa Pos. 1,2,3,4,5,6

Seq#:26; Xaa Pos. 1,2,3,4,5,6 Seq#:27; Xaa Pos. 1,2,3,4,5,6

Seq#:28; Xaa Pos. 1,6 Seq#:30; Xaa Pos. 1,2,3,4,5,6